DOCUMENT RESUME

ED 445 918 SE 064 126

TITLE VISION: A School Program for Grades 4-8. [Revised].

INSTITUTION National Eye Inst. (DHEW/PHS), Bethesda, MD.; Association

for Research in Vision and Opthalmology, Bethesda, MD.

PUB DATE 1999-00-00

NOTE 18p.

AVAILABLE FROM Association for Research in Vision and Ophthalmology, 9650

Rockville Pike, Bethesda, MD 20814-3998. Web site:

http://www.nei.nih.gov/vision/vision.htm.

PUB TYPE Guides - Classroom - Teacher (052)

EDRS PRICE MF01/PC01 Plus Postage.

DESCRIPTORS Anatomy; Elementary Education; *Eyes; First Aid; School

Safety; Science Activities; *Visual Impairments

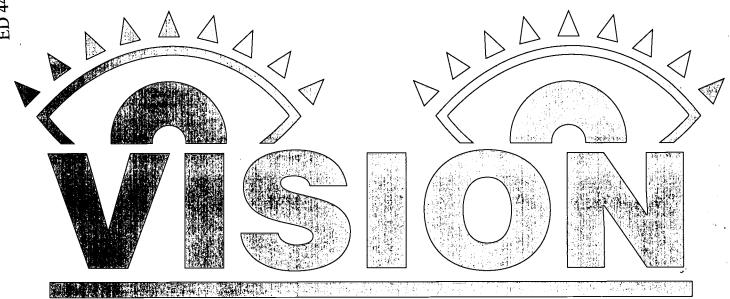
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IDENTIFIERS Optical Illusions

ABSTRACT

This document is a curriculum supplement that is part of a nationwide public education program on the eye and marks the 25th anniversary of the National Eye Institute (NEI). The anatomy of the eye and imperfect eye problems are explained. This booklet provides three lesson plans: (1) The Eyes and the Great Brain Connection; (2) The Imperfect Eye; and (3) Eye Safety. (YDS)

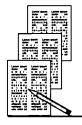




△ A SCHOOL PROGRAM FOR GRADES 4-8



△ A SCIENCE **CURRICULUM** SUPPLEMENT



△ THREE LESSON **PLANS**



△ IDEAL FOR A **GUEST SPEAKER**

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INTRODUCTION

VISION, a series of three lessons for grades 4–8, is part of a nationwide public education program to mark the 25th anniversary of the National Eye Institute, part of the Federal government's National Institutes of Health. This curriculum supplement can be used by a teacher and/or a guest speaker. The lesson plans are designed to be flexible. You may select a few activities for one classroom session, or use the entire supplement for several classes on vision.

To the Teacher

▲ To arrange for a visit from a vision researcher or eye care professional, contact the public affairs department of your local university, state association of ophthalmology or optometry, medical association, or hospital.

To the Guest Speaker

- ▲ Contact your local school principal or the science supervisor for the school district to arrange a classroom visit.
- ▲ Share your expertise with students and demonstrate the vital role science plays in their world.

TIPS FOR THE GUEST SPEAKER

A few weeks before your visit:

- ▲ Call the teacher.
- ▲ Discuss the lesson plan/s you have selected.
- ▲ Find out how much time will be available for your class session.
- ▲ Discuss the materials you need or will bring with you to the classroom.
- ▲ Make overhead transparencies or posters of the student handouts. This will help the students follow along with the activities.

In the classroom:

- ▲ Introduce yourself...tell students what you do...where you work...tell them about your training.
- ▲ Make eye contact... students love the personal contact.
- ▲ Smile and relax...tell amusing anecdotes...kids love a good laugh.
- ▲ Organize materials in advance... kids have a hard time waiting.
- ▲ Distribute handouts only when it is time to use them...so students will not be distracted.
- ▲ Use student volunteers to set up and distribute materials...kids love to feel important.
- ▲ Ask if there are any questions after each activity.

Set guidelines:

- ▲ Students must raise their hands to participate.
- ▲ Set time length for group discussions.
- ▲ Use a prearranged signal to stop discussions (bell, clapping, etc.).
- ▲ Give the entire class time to think about the question before calling on a student to answer.
- ▲ Call on as many members of the class as possible...everyone wants to be involved.
- ▲ Praise good behavior.

Enjoy the students, their enthusiasm, and their sense of wonder...they have a fascinating perspective on the world.



The National Eye Institute, part of the Federal government's National Institutes of Health, conducts and supports research to prevent and treat eye diseases and disorders.





LESSON PLAN #1

The Eves and the Great Brain Connection!

Goal: Students will identify the parts of the eye and explain the visual system of the brain.

Materials Needed: paper, pencils, colored pencils, or crayons.

Classroom Activities: Select two to three activities per classroom session.

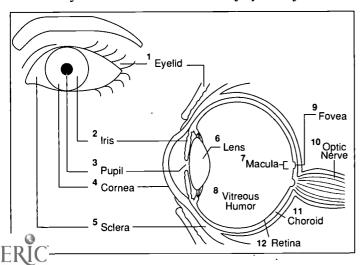
Activity 1: Ideal for younger students. Allow 15 minutes for students to work in pairs. Allow 5 minutes for classroom discussion.

Divide the classroom into pairs. Ask students to examine their partner's eyes and to draw a large picture of one eye, putting in as many details as they can. Have them notice the color and texture of the eye, and use crayons to lightly color the drawing. Students can compare the similarities and differences in the color, shape, and texture of each other's eyes. Circulate through the room during this activity and stimulate discussion.

Activity 2: Ideal for all ages. Allow 15-20 minutes.

Distribute *Handout: The Anatomy of the Eye*. Ask students to fill in the parts of the eye. Review and discuss the definitions with the students.

Answer key to Handout: The Anatomy of the Eye



Activity 3: Ideal for all ages. Allow 10 minutes.

Pupil dilation: Divide the classroom into pairs. Ask students to observe their partner's pupils automatically get larger and smaller as the classroom lights are turned off for 10 seconds, then turned back on.

Explain that the black spot in the middle of the iris—the pupil—is really a hole through which light enters the eye. The iris is a muscle that expands and contracts to control the amount of light that enters the eye. In bright light, the iris expands and the pupil shrinks so that only a little of the available light enters the eye.

Activity 4: Ideal for all ages. Allow 15 minutes.

Classroom or Take Home Activity: Distribute *Handout: Optical Illusions*. Review the handout with the class.

Activity 5: Ideal for all ages. Allow 15-20 minutes.

Classroom or Take Home Activity: Distribute *Handout: Scramble and Word Search.* Review the handout with the class.

Activity 6: Ideal for older students. Allow 20 minutes.

Distribute *Handout: The Visual System*. Review with the students.

Just for Fun: Distribute Handout: Eye Opening Facts.

Answer key to Handout: Scramble and Word Search

1. dyelie = eyelid	'
2. siir = iris	
3. lpuip = pupil	
4. onarce = cornea	
5. rsleca = sclera	
6. nesl = lens	
7. aclamu ≃ macula	
8. stivorue mhuro = vit	reous humor
9. ovafe = fovea	
10. pocit verne = optic	nerve
11. drohcio = choroid	
12. tranie = retina	·





LESSON PLAN #2 The Imperfect Eye

Goal: Students learn about common visual disorders and diseases.

Materials Needed: petroleum jelly, paper towels/wipes, sunglasses (ask students to bring in sunglasses), ping pong balls (one ball for each group of three students), eye patch or blindfold, pitcher of water and a cup, paper clips, paper, and pens.

Classroom Activities: Select two to three activities per classroom session.

Activity 1: Ideal for all ages. Allow 20 minutes.

Ask students the following questions about their classmates, families, and friends:

- ▲ How many wear glasses or contact lenses?
- ▲ Do they know why?
- ▲ Do any of them have cataracts, glaucoma, agerelated macular degeneration, diabetic retinopathy?
- ▲ How old are these people?

Discuss answers to their questions.

Activity 2: Ideal for all ages.

Simulate impaired vision with students. Ask students to make observations and record information. Following each of these activities ask students: How did it feel? What activities could you do with impaired vision? What couldn't you do?

Impairment in both eyes: Allow 15-20 minutes.

Rub petroleum jelly on a pair of sunglasses. Have students wear the sunglasses while trying some common daily activities (e.g., reading a book or newspaper, pouring water from a pitcher to a cup, making a paper clip chain, signing their names, making a paper airplane).

Discuss the following questions afterward:

- ▲ How did you feel while you were wearing the glasses?
- △ What was the most difficult task to do?

Impairment in one eye: Allow 10 minutes for each activity.

Following these exercises, explain that vision with one eye results in problems judging depth and distance.

Pencil Test: Have students hold a pencil in one hand, extended in front of them. Place the other hand above the pencil and lower one finger down onto the tip of the pencil. Repeat the exercise with one eye closed. (Note: Some students may have difficulty with this exercise since not all students see with both eyes at the same time; covering their better-seeing eye can make this especially difficult.) Discuss the following questions afterward:

- ▲ Did you notice the difference between using one eye as opposed to two eyes?
- ▲ What types of activities would be more difficult to do with only one eye?

Ball Toss (works best with eye patch or blindfold)

Divide the class into groups of three. Before they begin, ask students to guess how many balls they will catch with both eyes and with one eye. Draw the sample score card (below) on the blackboard. Ask students to copy the score card and record how many balls they catch.

Have students toss the ping pong ball around in groups of three first with both eyes, then with one eye blindfolded or patched. Ask students if it was easier to catch the ball with one or two eyes. Can they explain why?

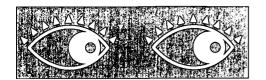
Activity 3: Ideal for older students. Allow 20 minutes.

Distribute *Handout: The Imperfect Eye.* Review with students. Ask for their comments on the eye disease simulations. How are they different from the normal vision picture?

Just for Fun: Distribute Handout: Eye Opening Facts.

Ball Toss Score Ca	ard	
Number of throws	Catches with both eyes	Catches with one eye
	5	





LESSON PLAN #3 Eve Safety

Goal: Students will identify possible eye injuries, their causes, first aid tips, and ways to prevent injuries.

Classroom Activities: Select two to three activities per classroom session.

Activity 1: Ideal for all ages. Allow 15 minutes.

Divide students into small working groups and ask them to discuss situations in their homes, schools, or communities that could result in eye injury. Ask them to identify protective eyewear that could be worn to prevent injury.

Discuss their answers. List them on the blackboard.

Activity 2: Ideal for younger ages. Allow 15 minutes.

Distribute *Handout*: Eye Safety

Discuss with students how the eye protects itself from injury.

Discuss first aid tips with students.

Review illustration with students. Ask them to identify six activities that are harmful and discuss ways to prevent eye injuries.

Extension Activity: Ideal for older students.

Have students prepare a mini-presentation to younger students on eye safety.

Ask the students to write to an eye care professional and request information on first aid tips for eye injuries. Have students review and discuss this information when it becomes available.

Just for Fun: Distribute Handout: Eye Opening Facts.

Creditts

Sources used for **VISION** include the following:

The Bright Eye Kids
Minnesota Society for the Prevention of
Blindness and Preservation of Hearing
St. Paul, MN, 1988

Eye Facts: Eye Trauma
UIC Department of Ophthalmology
The University of Illinois
College of Medicine at Chicago
Chicago, IL

EYE Q's: Activities with Vision
The Foundation of the American Academy of Ophthalmology
San Francisco, CA, 1992

Exploratorium Pathways: The Eye School in the Exploratorium: Idea Sheet, The Eye Exploratorium, San Francisco, CA, 1977

Flight into Sight
Stuart R. Dankner, M.D., Pediatric Ophthalmologist Baltimore, MD

A Guide to Eye Safety Krames Communications San Bruno, CA

A Journey Through Your Eyes: A Curriculum Guide American Optometric Association St. Louis, MO, 1992

Protecting Your Eyes At Home, At Work, At Play The University of Illinois at Chicago Chicago, IL, 1992

The Optical Illusion Book
Seymour Simon
William Morrow and Company, Inc.
New York, NY, 1984

Sharing Science with Children: A Survival Guide for Scientists and Engineers. The North Carolina Museum of Life and Science Durham, NC

Vision for Your Future American Academy of Ophthalmology San Francisco, CA



The Anatomy of the Eye

- A layer of blood vessels that **▲ Choroid** (KOR-oyd) feeds the retina.
- eye's focusing system located The clear outer part of the **▲ Cornea** (KOR-nee-uh) at the front of the eye.

▶ Eyelid

eye; limits light entering the that protects the front of the The skin-covered structure

The center of the macula; gives eye; spreads tears over cornea. ▲ Fovea (FOH-vee-uh) the sharpest vision.

▲ Iris

regulates the amount of light The colored part of the eye; entering the eye. **▲** Lens

behind the iris that helps to

ocus light on the retina.

The clear part of the eye

Allows the eye to focus on both far and near objects.

The small sensitive area of ▲ Macula (MAK-yoo-luh) vision; contains the fovea. retina that gives central

▲ Optic nerve

The bundle of over one million visual messages from the nerve fibers that carries retina to the brain.

▲ Pupil

size of the pupil and controls The opening at the center of the amount of light that can the iris. The iris adjusts the enter the eye.

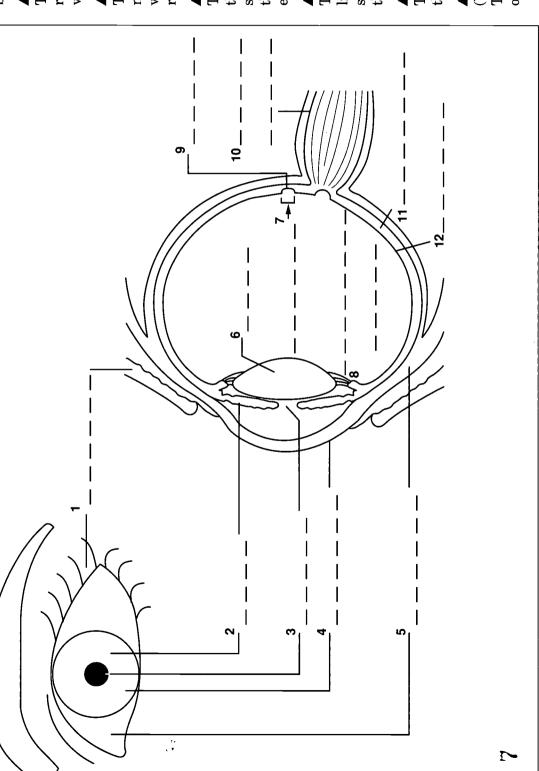
lining the back of the eyeball; sends electrical impulses to The light-sensitive tissue ▲ Retina (RET-in-nuh) the brain.

The tough, white outer coat of ▲ Sclera (SKLEH-ruh) the eye.

▲ Vitreous Humor

(VIT-ree-us)

The clear gel filling the inside of the eye.



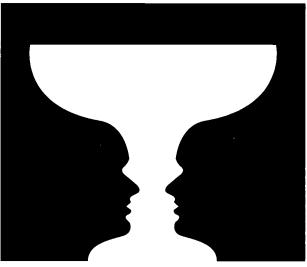


Optical Illusions

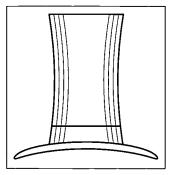
ometimes your eyes play tricks on you. The pictures on this page are called "optical illusions."

Optical means vision. An illusion is something that isn't what it seems to be. An optical illusion is something that plays tricks on your vision. Optical illusions teach us about how the eye and brain work together to create vision. In our everyday three-dimensional (3-D) world, our brain gets clues about depth, shading, lighting, and position to help us interpret what our eyes see. But when we look at two-dimensional (2-D) images that lack some of these clues, the brain can be fooled.

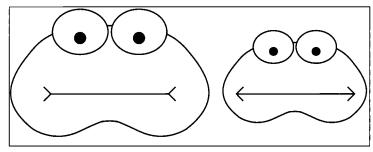
Can you figure out these optical illusions?



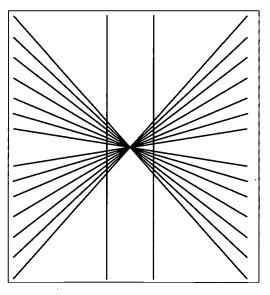
1. Is this a picture of a vase? Or two faces looking at each other? Do you see both?



3. Is the hat taller than it is wide?



2. Which frog has a bigger mouth? Are you sure? Measure to find out.



4. Are the up and down lines straight or bent? Use a ruler to check.







Scramble and Word Search

Scramble

Unscramble the parts of the eye listed below. Hint: The location of each is shown on the diagram.

1. dyelie	
2. siir	1
3. lpuip	9
4. onarce	
5. rsleca	
6. nesl	6
7. aclamu	4+\ 1\ \)
8. stivorue mhuro	
9. ovafe	
10. pocit verne	5
11. drohcio	
12. tranie	







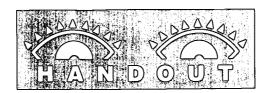


Eye-Opening Facts

History Tells Us...

▲ Abraham Lincoln was farsighted and had a "lazy eye." His first pair of eyeglasses cost about 38 cents.



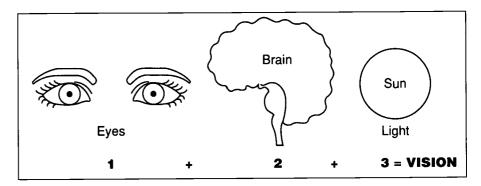


The Visual System

he human eye is composed of many parts that work together. They receive visual images, focus them properly, and send messages to the brain.

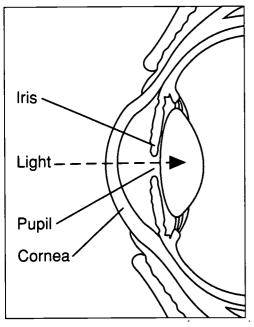
To have vision, you must have three things:

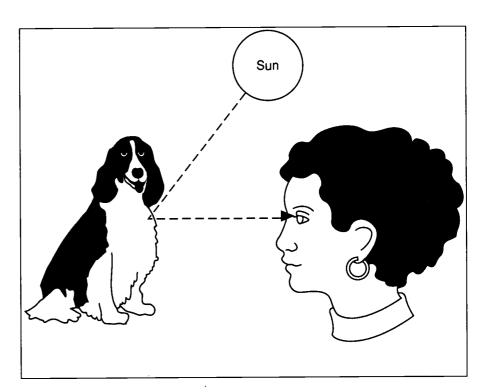
- (1) eyes,
- (2) a brain, and
- (3) light.
- o how does all this work? We start with light.



ight rays bounce off an object you are looking at. Let's say the object is a dog. The light reflects off the dog's image and comes back to your eye.

ight then enters through the outer part of the eye, called the **cornea**. The cornea is clear like a window. The cornea helps the eye to focus. "To focus" means to make things look sharp and clear.





ext, the light rays go through an opening called the **pupil**. The pupil is the dark round circle in the middle of the colored part of your eye. The colored part is called the **iris**. The pupil is really a hole in the iris. The iris controls how much light goes into your eye.

Continued on next page



HANDOUT: The Visual System (continued)

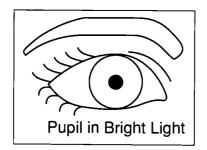
hen the light is bright, the iris closes the pupil until the right amount of light gets in. When the light is dim, the iris opens the pupil to let in more light. All of this happens automatically. You do not have to tell your eye to do it!

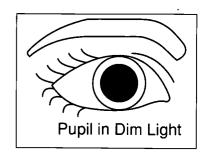
our eye has a **lens** to focus the rays of light. The lens of the eye is behind the iris. Light passes through the lens on its way to the back of the eye.

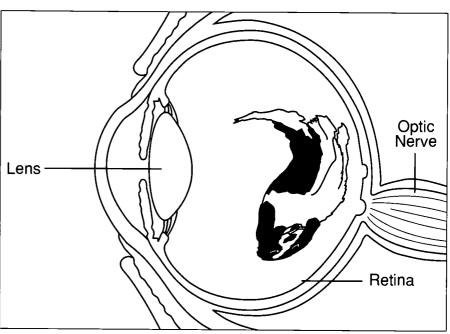
The back of the eye is very important. Lining the inside of the eye is the **retina**. The retina includes 130 million tiny light-sensitive cells that send messages to other cells. These cells come together at the back of the eye to form the **optic nerve**. The optic nerve is part of the brain.

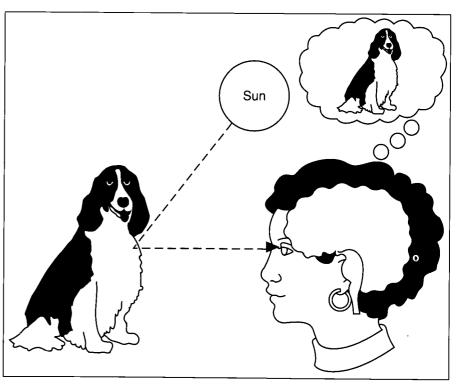
Fortunately for you, your brain decides how you see. The retina sees the world upside down, but the brain turns it right side up.

hen you look at an object, each eye sees a slightly different picture. The brain combines the images, or pictures, that each eye sees and makes them into one picture.









Photocopy from original for best quality





The Imperfect Eye

Some Problems of Childhood

Strabismus is also called "crossed eyes" or "wall eyes." One eye is turned too far in one direction. Sometimes, a baby's eyes may cross but this is normal. Children six months old or older with crossed eyes should see an eye doctor. This problem usually can be fixed helped.

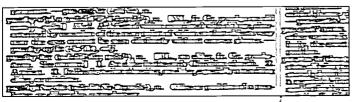


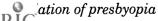
mblyopia is also called "lazy eye." It happens when normal vision does not develop in one eye because the "lazy eye" sends a poor message to the brain. This problem usually can be fixed with glasses, eye drops, or a patch. The patch is put over the stronger eye. This helps the "lazy eye" work and get stronger, too.



Simulation of normal vision

Simulation of myopia





Refractive Errors

ike any other part of the body, the eye grows, works, tires, and ages. It can be injured. It can become diseased. However, most vision problems are not diseases but refractive errors. These are minor flaws in the way the eye is built that causes it to focus incorrectly.

Myopia, also called nearsighted, means that a person sees nearby objects more clearly than objects that are far away. It occurs when the eyeball is too long or the cornea is too rounded and light is focused in front of the retina instead of directly on it. Eyeglasses or contact lenses can correct the problem.

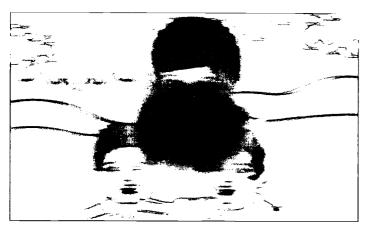
Presbyopia means "old man's eyes." It happens when the lens of the eye becomes hard and less flexible with age. It then becomes harder to bring nearby objects into focus. Everyone becomes presbyopic, usually between 40 and 50 years of age.

HANDOUT: The Imperfect Eye (continued)

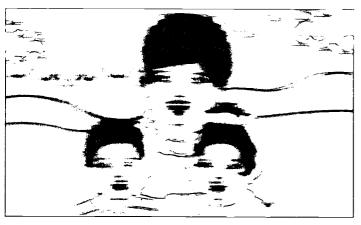
Common Eye Diseases

ore than 10 million people in the United States are blind or have vision problems that cannot be fixed or corrected with eyeglasses.

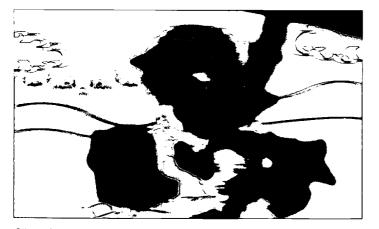
Many eye diseases are detected during an eye exam through dilated pupils. This means drops are put into the eyes during the exam to enlarge the pupils. This allows the eye care professional to see more of the inside of the eye.



Simulation of age-related macular degeneration



Simulation of cataracts

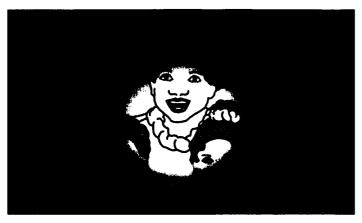


Simulation of diabetic retinopathy

Age-related macular degeneration (AMD) is the leading cause of blindness in older people. It affects a tiny area in the middle of the retina called the macula. AMD can destroy the central vision. This vision is needed for doing common daily tasks such as reading and driving. Scientists are learning what causes AMD and how it can be better treated.

Cataracts form when the lens of the eye grows cloudy. In a commonly performed operation, the cloudy lens is often replaced with a plastic lens. It is a very safe and successful type of surgery. In fact, it is the most common surgery for people over age 60.

Diabetic Retinopathy. People with diabetes are at high risk for diabetic retinopathy. This disease damages the blood vessels in the eye. It is a leading cause of blindness in adults, but treatment using lasers or surgery can prevent serious vision loss. People with diabetes should have an eye exam through dilated pupils at least once a year.



Simulation of glaucoma

Glaucoma is called the "sneak thief of sight," because it does not give any warning signs. This blinding disease damages the optic nerve. Glaucoma is treated with medication, lasers, and surgery. Blacks over age 40 and everyone over age 60 are at high risk for glaucoma. These people should have an eye exam through dilated pupils at least once every two years.



Low Vision

ow vision is a vision problem that cannot be corrected with contact lenses or glasses. While some vision remains, everyday tasks such as reading the newspaper or driving may be difficult

or impossible. Visual aids such as magnifying glasses, talking watches, computers that read out loud, and special video devices assist people with low vision.

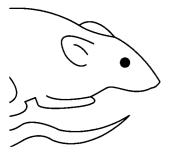
Legal Blindness

egal blindness means that a person has either a visual acuity of 20/200* or worse in their good eye while wearing glasses or contact lenses, or their visual field is limited to 20 degrees in diameter or less in the good eye. This is called tunnel vision.

A person who is legally blind can receive financial assistance under Federal government programs.

* 20/200 means that a person must be 20 feet from an eye chart to see what a person with normal vision can see at 200 feet.

From Vision Research to Eye Care



sing American tax dollars, scientists learn how diseases hurt our eyes and find new ways to stop or treat them. The National Eye Institute, one of the Federal government's National Institutes of Health, conducts and funds research to find better ways to prevent, detect, and treat eye diseases.

The research process starts with basic research in the laboratory conducted by scientists who study molecules and cells, the building blocks of life. In addition, they study animals that have diseases similar to those seen in humans. These scientists generate the clues that lead to new drugs and other treatments to fight disease.

For example, a National Eye Institute scientist found that a drug that was tested in rats controlled uveitis, an inflammation inside the eye. But before doctors could give this drug as a standard treatment to their patients, researchers had to first test it in human volunteers.

This test was called a clinical trial, an experiment that tells us how safe and effective a drug is in humans. Half of the patient volunteers took the new uveitis drug, while the other half used a standard treatment. The scientists found that in certain types of uveitis, the new drug worked as well as the standard drug, but with favor side effects. The new drug is now used as one of the treatments for uveitis.

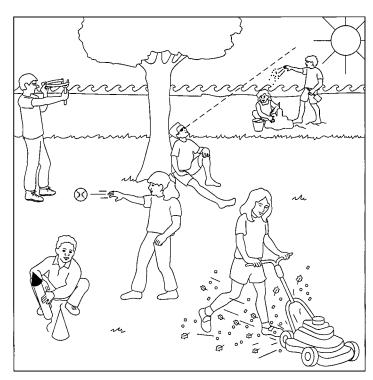


Eye Safety

ye injury is the leading cause of blindness in children in the United States. Each year millions of eye injuries occur. These usually happen at home and school, often during sports and hobby activities. However, 90 percent of these injuries could be prevented.

How Your Eyes Are Protected

- △ Your eyes lie in bony sockets that protect them from getting hit.
- ▲ Eyebrows help keep light from getting in your eyes.
- ▲ Eyelids close to keep things from getting in your eyes.
- ▲ Eyelashes grow along the outside of the eyelids; they also keep things from getting in your eyes.
- ▲ Tears help keep the eyes moist. Tears also help to wash away things that can irritate your eyes.



ind six things in the picture above that can be dangerous to your eyes.

Answers: Mowing the lawn with debris flying; using a slingshot; lighting or playing with fireworks; throwing a ball over someone's head; looking at the sun, even with sunglasses; and throwing sand can all be dangerous to the eyes.

What to Do If ...? First Aid Tips

- ▲ If something gets into your eye, such as sand or dust, do not rub your eye. Wash your eye with water to get the object out.
- ▲ If your eye gets hit by a ball or a fist, put cold cloths on your eye for 15 minutes. This will make the swelling go down and the eye won't hurt so much. You should also go to the doctor.
- ▲ If an object, such as a stick or a pencil, gets stuck in your eye, do not pull it out. Put a loose bandage on your eye. This is very serious. You need to go to the doctor right away.
- △ If a chemical, such as cleaning fluid or battery acid, splashes in your eyes, wash out your eyes with water for at least 10 minutes. You need to go to the doctor right away.





Eye Opening Facts

Did You Know That...

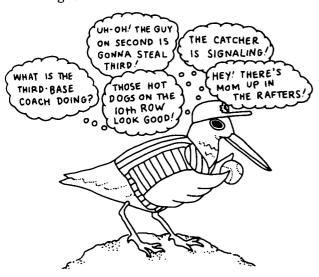


▲ Babies have very poor vision at birth. They learn to see the same way they learn to talk—both habits and muscles must be developed.

▲ Your eyes sometimes look red in a photograph because light from the flash reflects off the choroid, blood vessels that nourish the retina. To avoid this reflection, ask your subjects to look slightly to the side of the camera.

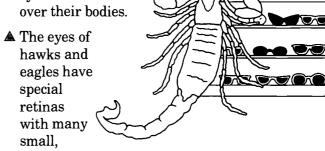
Those Amazing Animal Eyes...

▲ With players on base, a baseball pitcher has to crane his neck to check base runners and his catcher's signal before delivering the pitch. However, if a type of bird called an American woodcock was standing on the mound, it could see all the bases, home plate, the entire outfield, and the entire stadium, including most of the ceiling of an astrodome—without moving its head.



Those Amazing Animal Eyes...

▲ Scorpions have as many as 12 eyes, and some marine flatworms have more than 100 eyes scattered all over their bodies.



light-sensitive cells. This gives them vision almost eight times better than humans and helps them see small rodents from high above.

▲ Tropical fish and many brightly colored animals have more color vision cells than humans. These extra cells allow them to see colors humans cannot.

Did You Know That...

- ▲ A person blinks once every five seconds. That means most people's eyes are shut for nearly 30 minutes while they are awake each day.
- ▲ Each of your eyes weighs 1/4 ounce, measures less than one inch in diameter, and is shaped like a slightly flattened ball.
- ▲ More than one-half of all people in the United States use some type of lens to correct their vision.





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This school program was developed by the National Eye Institute, National Institutes of Health, in cooperation with The Association for Research in Vision and Ophthalmology.





The Association for Research in Vision and Ophthalmology

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National Eye Institute 2020 Vision Place Bethesda, MD 20892-3655 301-496-5248 http://www.nei.nih.gov

Published by
The Association for Research in Vision and Ophthalmology
9650 Rockville Pike, Bethesda, MD 20814-3998





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